

Title (en)  
COMPOSITE PROFILE

Title (de)  
PROFILVERBUND

Title (fr)  
COMPOSITE DE PROFILÉ

Publication  
**EP 3712444 B1 20211006 (DE)**

Application  
**EP 20162129 A 20200310**

Priority  
DE 202019101580 U 20190320

Abstract (en)  
[origin: US2020299952A1] A profile assembly produced from a first profile and a second profile connected longitudinally by cold joining. Both profiles bear complementary clamping structures on long sides thereof facing toward one another for cold joining together. The clamping structure of the first profile comprises a clamping head formed on a web and forming an undercut on each side of the web by way of a greater extension in the profile transverse direction in relation to that of the web. The clamping structure of the second profile comprises a clamping head receptacle for accommodating a section of the clamping head and a clinching leg, formed on a profile-exterior leg of the clamping head receptacle, having a first profile arm protruding before cold joining and a second profile arm formed at an angle thereon, the free end of which engages behind the clamping head and, before cold joining, faces toward a clamping pocket of the first profile. The clamping head receptacle is tapered with respect to its open width and/or the clamping head is tapered with respect to its material thickness of the section to be inserted into the clamping head receptacle, wherein the section of the clamping head pressed into the clamping head receptacle is connected to the clamping head receptacle in a metalically sealed manner.

IPC 8 full level  
**F16B 5/00** (2006.01); **B60L 50/60** (2019.01); **F16B 5/07** (2006.01)

CPC (source: CN EP US)  
**E04B 1/38** (2013.01 - US); **E04C 2/384** (2013.01 - US); **F16B 5/0016** (2013.01 - CN); **F16B 5/0096** (2013.01 - EP US); **F16B 5/07** (2013.01 - CN EP US); **F16B 5/0012** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP)

Cited by  
WO2022194388A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 202019101580 U1 20200630**; CN 111720392 A 20200929; CN 111720392 B 20231107; EP 3712444 A1 20200923; EP 3712444 B1 20211006; ES 2900508 T3 20220317; HU E057159 T2 20220428; PL 3712444 T3 20220110; PT 3712444 T 20211210; US 11624183 B2 20230411; US 2020299952 A1 20200924

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**DE 202019101580 U 20190320**; CN 202010190225 A 20200318; EP 20162129 A 20200310; ES 20162129 T 20200310; HU E20162129 A 20200310; PL 20162129 T 20200310; PT 20162129 T 20200310; US 202016817486 A 20200312